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### Immediate Release Film Coating Systems for Tablets

Colorcon®, the innovator and industry standard for complete film coating systems, offers a range of custom pigmented and non-pigmented film coatings for immediate release solid dose applications. Our film coating formulas produce attractive, elegant coatings on even the most challenging tablet surfaces and can be used in both aqueous and organic coating procedures.

An extensive selection of polymer blend formulations provides the user with the ability to impart many beneficial features to a solid oral dosage formulation. Benefits include:

- Reduced coating process time
- Superior adhesion on difficult to coat cores
- Less stressful processing conditions for heat sensitive, friable or high drug content cores
- Sharper logo definition, even at higher weight gains
- Better gloss and smoothness compared to conventional film coatings
- Improved color stability

Aqueous film coating is the quickest and least expensive method for enhancing your tablet appearance and, unlike other methods, will not affect dissolution or disintegration profiles. Our custom formulated, dry-blend systems consist of polymers, plasticizers and pigments, combined in one, easy-to-use, dry powder system which is rehydrated quickly and simply with water. Colorcon also offers customized color selection and color matching of our immediate release tablet film coating products.

Colorcon's ongoing research of film coating polymers has produced many enhanced polymer combinations resulting in new tablet coating options for our customers. Our newly developed, dry coating technology provides benefits such as improved adhesion, reduced processing times, and application of the tablet coating at wider process parameters. Advances in our immediate release tablet film coating technology not only give a more elegant appearance to your solid oral dosage form, but provide unique opportunities for branding and tablet identification.

**Visit the links below for more information on our wide range of tablet film coating products:**

**Opadry® II Complete Film Coating System**  
 Custom formulated, complete aqueous dry-blend system consisting of a combination of polymers developed to offer productivity enhancements to the original Opadry formula.

**Opadry® b™ Special Effects Film Coating Systems**  
 A pearlescent and lustrous effect aqueous film coating system which can create visually unique effects for solid dosage forms.

**Opadry® amb Aqueous Moisture Barrier Film Coating System**  
 A one step, dry-blend system specifically designed for the coating of solid oral dosage forms that require a high level of protection from environmental moisture.

**Opaglos® 2 High Gloss Film Coating System**  
 High gloss pigmented or clear aqueous film coating system that gives tablets an elegant appearance not previously possible using standard film coating equipment.

**Opadry® tm Taste Mask Film Coating System**  
 A fully formulated, pigmented, immediate release film coating system for the taste masking of tablets.

**Opadry® Complete Film Coating System**  
 Original one-step customized coating system that combines polymer, plasticizer and, if desired pigment in a complete dry concentrate than can be used in both aqueous and organic coating processes.

**Opadry® pS Complete Film Coating Systems for Nutritional Supplements**  
 Opadry NS is specifically designed to meet the needs of the North American dietary supplement market.

**Opalux® Color Coating Product**  
 An opaque, aqueous color dispersion in sucrose syrup.

**Opaint® Food Coloring Dispersion**  
 Opaint is a liquid concentrate of pigments dispersed in a variety of selected mediums such as oil, glycerin or sugar syrup.

**Opaspray® Color Coating Dispersion**  
 Opaspray is a concentrated liquid formula of pigments and titanium dioxide designed for the coloring of aqueous or organic film coating systems.

**Contact Colorcon** to learn more about our immediate release film coating systems for solid oral dosage forms.

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## Opadry® II Complete Film Coating System

Offering short process times and a superior film finish, the Opadry II product range consists of fully formulated dry blend systems for the aqueous film coating of pharmaceutical and nutritional oral solid dosage forms. Opadry II is a water soluble, pH independent film coating which allows for immediate disintegration for fast, active release.


**As a high performance aqueous film coating system, Opadry II offers:**

- Reduced coating process time resulting in a savings of 25% or more compared with conventional film coating formulations.
- Superior product appearance as a high adhesion polymer provides excellent logo definition, on difficult to coat cores.
- Environmental moisture protection for sensitive cores, enhancing product stability and improving shelf life.
- Wide processing capability, making Opadry II simple to use on all types of coating equipment and substrates.

**Key Benefits of Using Opadry II Products:**

- Commercial success is achieved on a wide variety of tablets containing a wide variety of active pharmaceutical ingredients (API).
- Gain an increase in capacity, by reducing the length of process time in the coating operation. Lessen the need for future capital expenditure.
- Pigmented systems capable of 20% solids solution with low viscosity which reduces processing time and is easy to apply.
- Low viscosity results in optimal droplet size for greater uniformity with a smooth tablet finish and improved gloss.
- Reduce inventory, handling and raw material testing costs with a ready-to-use dry mix containing polymer, plasticizer and pigment.
- Mixes easily with water into a solution which is usable within 30-45 minutes.
- An aqueous soluble polymer enables easy clean-up with water for fast turnaround times.

Contact Colorcon to find out how Opadry II can put you on the fast track to greater coating productivity and performance.



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## Opadry® fx™ Special Effects Film Coating System

Opadry fx is an aqueous film coating system designed to impart a pearlescent and lustrous finish which will help to create a unique appearance on a solid dosage form. Opadry fx will take your product to a higher level of brand differentiation. The Opadry fx system is offered in an array of colors and when coupled with a pigmented Opadry® II Complete Film Coating System sub-coating, will allow a nearly infinite selection of shades and hues along with high levels of gloss.

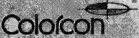
Beyond brand recognition offered through this unique appearance, the Opadry fx film coating system can also provide an effective layer of added security against tablet counterfeiting. The pearlescent effects are evident at low application levels of the coating, and optimal pearlescence is established at a nominal cost per dosage. Opadry fx is a valuable alternative when compared with achieving differentiation through high gloss techniques that do not involve a film coating.

Opadry fx is an effective coating system that is easy to use, cleans with water, and is applied utilizing standard film coating equipment and techniques. Utilization of Opadry fx will create novel products with existing assets.

[Contact Colorcon](#) today to find out how Opadry fx can be utilized to take your product to the next level.

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Nutrafident

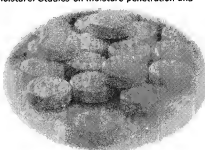
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## Opadry® amb Aqueous Moisture Barrier Film Coating System

Opadry amb is a pigmented or white, film coating system specifically developed by Colorcon® for the coating of oral solid-dosage forms that need to be protected from environmental moisture. Studies on moisture penetration and transmission rates have demonstrated that Opadry amb provides unrivaled protection, making it the product of choice for immediate release tablets and multi-particulates that require extreme moisture protection.


Performance is matched with a quality appearance. The high adhesion polymer provides excellent logo definition, and a smooth tablet finish. Opadry amb improves efficiency by reducing the time dedicated to the coating cycle via fast hydration and being ready for use within 45 minutes. Production flexibility is also enhanced because the product is easy to dispense, and an aqueous soluble polymer means more rapid equipment clean down with water for faster turnaround times is possible.




Opadry amb is recommended for use in applications in which Colorcon's Opadry II® 85 Series™ PVA-Based, High Productivity Film Coatings does not provide sufficient moisture protection. Like Opadry II, Opadry amb has achieved global regulatory acceptance for multinational use and is available to customers worldwide.


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## Opadry® tm Taste Mask Film Coating System

Opadry tm is a fully formulated, pigmented, immediate release film coating system designed specifically for the taste masking of tablets. It has been tested on a wide range of tablets containing bitter-tasting actives for effectiveness and stability.

Opadry tm is applied in an aqueous process, to form a pH independent, water soluble film coating. On a tablet this coating will function as a barrier to mask an unpleasant taste with no effect on the release profile of the drug.

The ingredients used to formulate Opadry tm meet the compendia requirements of the major pharmacopeia, and Colorcon provides the product both in white and custom color-matched pigmented systems.

[Contact Colorcon](#) today to find out how to make Opadry tm work for you.



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Opadry is Colorcon's customized, one-step film coating system which combines polymer, plasticizer and pigment, as required, in a dry concentrate. It provides excellent film forming capabilities including sharp logo definition, high tensile strength and excellent adhesion properties, all of which help to produce attractive, elegant coatings on a variety of tablet cores that can be utilized in both aqueous and organic coating procedures.

The key benefits include the elimination of separate inventories of polymer, plasticizer and pigment, which in turn reduces the time spent on testing.

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